

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number
WO 2004/010736 A1

(51) International Patent Classification⁷: H05B 3/56, 3/12

(74) Agent: PARKINSON, Neil, Scott; Marks & Clerks, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).

(21) International Application Number:

PCT/GB2003/003120

(22) International Filing Date: 17 July 2003 (17.07.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0216932.4 20 July 2002 (20.07.2002) GB

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

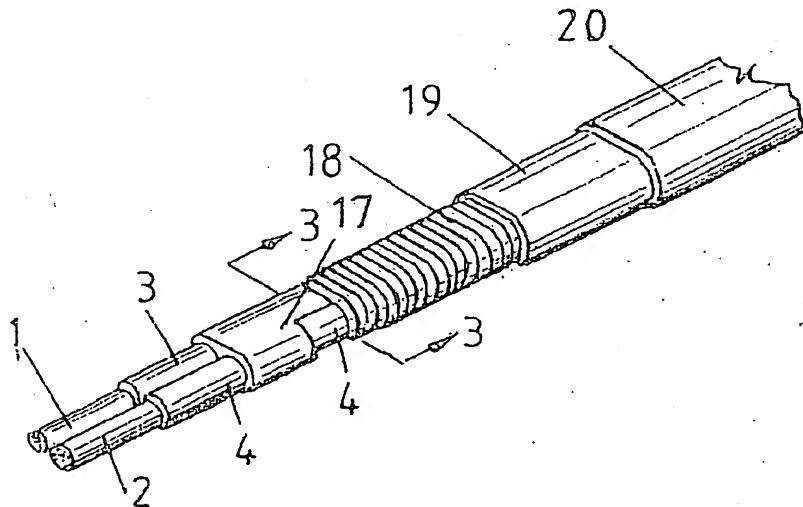
(71) Applicant (for all designated States except US): HEAT TRACE LIMITED [GB/GB]; Tracer house, Cromwell Road, Stockport SK6 2RF (GB).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: ELECTRICAL HEATING CABLE



(57) Abstract: An electrical heating cable of the type in which two power supply conductors extend along the length of the cable and the heating element extends along the length of the cable and between the two conductors, connected in parallel between the conductors. One or both of the conductors is encased in the sheath of material which has a positive temperature coefficient and the heating element is in electrical contact with the outer surface of the sheath. As a result the sheath is electrically connected in series between each heating element and the conductor encased by the sheath. The sheath may be manufactured from a material which provides a very rapid rise in electrical resistance at a predetermined temperature, thereby enabling the manufacture of a cable which delivers substantially constant power below the predetermined temperature with a rapid reduction in power output at the predetermined temperature.

WO 2004/010736 A1